

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method ~~to detect~~of detecting a picture repetition mode of film material comprising a series of consecutive fields, the method comprising the following steps:
  - Ø ~~Establishing~~establishing a motion parameter pattern for said film material;
  - Ø ~~Comparing~~comparing said pattern with a number of predetermined motion parameter patterns; and
  - Ø ~~Determining~~determining said picture repetition mode using the result of the preceding step<sub>1</sub>,  
characterized in that<sub>1</sub> said ~~method includes the following~~establishing step comprises the sub-steps:
    - ~~Identifying~~identifying a plurality of different objects within said consecutive fields, an object being defined as an image portion of said consecutive fields that can be described with a single motion model;
    - ~~Carrying out the following steps:~~ and
    - Ø ~~Establishing~~establishing a motion parameter pattern for each one of said objects within said consecutive fields<sub>1</sub>;
    - Ø ~~Comparing~~in that said comparing step comprises comparing each established said motion parameter pattern with a number of predetermined motion parameter patterns<sub>1</sub>;

~~Ø~~ ~~Determining~~ and in that said determining step comprises determining said picture repetition mode for each one of said objects using the result of the ~~preceding~~ comparing step.

2. (Currently Amended) ~~Arrangement to detect~~ An arrangement for detecting a picture repetition mode of film material comprising a series of consecutive fields, the arrangement comprising processing means and a memory ~~(M)~~, the processing means being arranged to ~~carry out the following steps:~~

~~Ø~~ ~~Establishing~~ establish a motion parameter pattern for said film material;

~~Ø~~ ~~Comparing,~~ compare said pattern with a number of predetermined motion parameter patterns stored in said memory ~~(M)~~;

~~Ø~~ ~~Determining,~~ and determine said picture repetition mode using the result of the preceding step;

characterized in that, ~~said processing means are arranged to carry out the following steps~~ comprises:

~~-~~ Identifying ~~means for identifying~~ a plurality of different objects within said consecutive fields, an object being defined as an image portion of said consecutive fields that can be described with a single motion model;

~~-~~ ~~Carrying out the following steps:~~

Ø ~~Establishing means for establishing~~ a motion parameter pattern for each one of said objects within said consecutive fields;

Ø ~~Comparing said means for comparing each established~~ motion parameter pattern with a number of predetermined motion parameter patterns stored in said memory; and

Ø ~~Determining means for determining~~ said picture repetition mode for each one of said objects using the results of the ~~preceding step~~ comparison.

3. (Currently Amended) ~~Arrangement according to The~~ arrangement as claimed in claim 2, wherein said ~~processing~~ identifying means are arranged to identify said plurality of different objects by also using a motion estimation technique.

4. (Currently Amended) ~~Arrangement according to The~~ arrangement as claimed in claim 3, ~~comprising wherein said identifying means~~ comprises a plurality of motion model parameter estimators ~~(PEM(n))~~ operating in parallel to carry out said motion estimation technique.

5. (Currently Amended) ~~Arrangement according to The~~ arrangement as claimed in claim 2, ~~comprising wherein said~~ identifying means comprises a segmentation unit ~~(SU)~~ for performing

a recursive segmentation method to identify said plurality of objects.

6. (Currently Amended) ~~Arrangement according to The~~  
arrangement as claimed in claim 2, comprising wherein said  
identifying means comprises a data reduction unit (DRU).

7. (Currently Amended) ~~Arrangement according to The~~  
arrangement as claimed in claim 2, wherein said predetermined  
motion parameter patterns relate to at least one of the following  
set of film modes: a 2-2 pull-down mode, a 3-2 pull-down mode, and  
video mode.

8. (Currently Amended) ~~Arrangement according to The~~  
arrangement as claimed in claim 2, comprising wherein said  
arrangement further comprises a film processing unit for carrying  
out a film material processing step.

9. (Currently Amended) ~~Arrangement according to The~~  
arrangement as claimed in claim 8 wherein said film processing unit  
is arranged to carry out at least one of the following steps:  
picture rate conversion, de-interlacing, and film judder removal.

10. (Currently Amended) ~~Chip~~ A single chip package provided with an arrangement ~~according to~~ as claimed in claim 2.

11. (Currently Amended) ~~Television~~ A television apparatus provided with a single chip package as claimed in ~~according to~~ claim 10.

12. (Currently Amended) ~~Computer~~ A computer program product to be loaded ~~by~~ into a computer arrangement, said computer program product comprising instructions for causing said computer arrangement to detect a picture repetition mode of film material comprising a series of consecutive fields, wherein the computer arrangement comprising ~~comprises~~ processing means and a memory ~~(M)~~, and wherein the computer program product, after being loaded into said computer arrangement, providing causes said processing means ~~with the capability to carry out the following steps:~~

~~Ø Establishing a motion parameter pattern for said film material;~~

~~Ø Comparing said pattern with a number of predetermined motion parameter patterns stored in said memory (M);~~

~~Ø Determining said picture repetition mode using the result of the preceding step;~~

~~characterized in that, said processing means are arranged to carry out the following steps:~~

~~-~~        ~~Identifying~~ identify a plurality of different objects within said consecutive fields using a motion estimation, an object being defined as an image portion of said consecutive fields that can be described with a single motion model;

~~-----~~ ~~Carrying out the following steps:~~

Ø        ~~Establishing~~ establish a motion parameter pattern for each one of said objects within said consecutive fields;

Ø        ~~Comparing said~~ compare each established motion parameter pattern with a number of predetermined motion parameter patterns stored in said memory ~~(M)~~; and

Ø        ~~Determining~~ determine said picture repetition mode for each one of said objects using the result of the ~~preceeding~~ step comparison.

13. (Currently Amended)        A data carrier provided with a computer program product ~~according to~~ as claimed in claim 12.